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COUNTRY Germany (Soviet Zone)

SUBJECT Feinmessgerätewerk Zwönitz Electronic Voltmeter Development

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1. A new electronic (vacuum-tube) voltmeter has been in development for the Red Army at the Zwönitz fine instrument works since September 1953. The development work was finished and production commenced at the beginning of December. So far, 7 apparatus have been asked for by the Soviet authority.
2. The apparatus has the following ranges: 1 volt, 3 volts, 5 volts, 10 volts, 30 volts, 100 volts, 300 volts. The plate resistance in these areas is 10 megohms (asymmetric).
3. The second measuring range has the following values: 2 volts, 6 volts, 12 volts, 20 volts, 60 volts, 200 volts, 600 volts, at 200 megohms plate resistance (asymmetric). The greatest sensible end deviation is at 1 volt. The frequency range is between 10 Hertz and 250 megahertz.
4. Current measurements are possible for direct as well as for alternating current to 30 KV. The accuracy is within approximately 2 percent at all scale graduations.
5. The apparatus is entirely independent of voltage fluctuations. The input resistance amounts to 20 or 10 megohms as the case may be.
4. Transformers and electrolytic condensers are delivered by the Leipzig RFT works.

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